

In the Claims

Please amend the claims as shown below:

1. (Currently amended) An optical pointing device capable of being installed in a slim personal portable device, comprising:

a cover glass closely contacting an object;  
a light source unit emitting light to the cover glass; and

a light receiving unit reflecting the light reflected by the object in a predetermined direction and condensing the light, and picking up an image of the light,

wherein ~~the image of the light being used to control the optical pointing device installed in the personal portable device~~ the light receiving unit comprises:

a reflecting mirror for reflecting the light reflected by the object at the cover glass, the reflected light traveling horizontally;

at least one condensing lens disposed on a path of light reflected by the reflecting mirror to condense the light; and

an optical image sensor picking up the image of the light transmitted through the condensing lens, and being vertically installed to perpendicularly encounter the horizontally traveling light.

2. (Original) The device of claim 1, wherein the light source unit comprises a light source emitting light and a light source guide guiding the light emitted from the light source to the cover glass.

3. (Canceled)

4. (Canceled)

5. (Currently amended) An optical pointing device capable of being installed in a slim personal portable device, comprising: The device of claim 1, wherein the light receiving unit comprises:

a cover glass closely contacting an object;  
a light source unit emitting light to the cover  
glass; and

a light receiving unit reflecting the light being  
reflected by the object in a predetermined direction and  
condensing the light, and picking up an image of the light,

wherein the light receiving unit comprises:  
a reflecting mirror for reflecting the reflected  
light in a predetermined direction;

at least one wave guide installed in the predetermined direction to the reflecting mirror, to guide and condense the light; and

an optical image sensor installed next to the wave guide to pick up the image of the condensed light, and vertically installed to perpendicularly encounter the horizontally traveling light.

6. (Currently amended) An optical pointing device capable of being installed in a slim personal portable device, comprising: The device of claim 1, wherein the light receiving unit comprises:

a cover glass closely contacting an object;  
a light source unit emitting light to the cover  
glass; and

a light receiving unit reflecting the light being  
reflected by the object in a predetermined direction and  
condensing the light, and picking up an image of the light,  
wherein the light receiving unit comprises:

a first reflecting mirror for reflecting the  
reflected light in a first direction and forming a horizontal  
optical path;

at least one wave guide horizontally installed in the first direction to the first reflecting mirror, to guide and condense the light;

a second reflecting mirror for reflecting the condensed light to a second direction; and

an optical image sensor installed in the second direction to the second reflecting mirror, to pick up the image of the condensed light,

wherein the wave guide is an optical wave guide composed of a transparent optical plastic or glass to minimize loss of light, and has a polished incident surface and a polished refraction surface to prevent a diffused reflection of the light.

7. (Previously presented) The device of claim 5, wherein the wave guide has an incidence face and a refraction face, each of which is convexly formed.

8. (Original) The device of claim 1, wherein the optical path in the predetermined direction is longer than a length for providing a sufficient depth of a focus.

9. (Original) The device of claim 1, wherein the light receiving unit includes a shading unit installed on the path of the light to remove noise of the light.

10. (Canceled)

11. (Canceled)

12. (Previously presented) The device of claim 6, wherein the wave guide has an incidence face and a refraction face, each of which is convexly formed.